

**ABSTRACT OF THE DISCLOSURE**

5      An implantable heart stimulator has an AV-interval generator which generates a variable AV-interval and which is provided with a predetermined basic AV-interval. The heart stimulator has a counter that counts the number of times the AV-interval is changed in response to a fusion avoidance algorithm or a stimulation threshold search algorithm during a predetermined time period. The basic AV-interval is changed if the number of times counted by the counter is greater than a predetermined value.